

AMENDMENTS TO THE CLAIMS

Claims 1-17 are pending, claims 1, 7, 10, 14 and 17 are currently amended as follows:

1 1. (Currently Amended) A system for reproducing a digital TV signal, comprising a
2 computer system and a display system, the computer system comprising:

3 a signal dividing means receiving the digital TV signal, and dividing the digital TV signal
4 into digital video signals and digital audio signals after a predetermined signal processing[[,]];

5 a video decoding means decoding the digital video signals outputted from the signal dividing
6 means into analog video signals, and outputting low frequency analog video signals by colors[[,]];

7 an audio decoding means decoding the digital audio signals outputted from the signal
8 dividing means into analog audio signals with a plurality of channels corresponding to predetermined
9 frequencies[[,]];

10 a plurality of frequency-modulators frequency-modulating the low frequency analog video
11 signals and the analog audio signals, in response to intermediate frequencies, respectively[[,]];

12 a signal combiner for combining the signals modulated by the plurality of frequency-
13 modulators; and

14 a wireless transmitter wirelessly transmitting the signals ~~modulated~~ combined by the
15 ~~frequency-modulators~~ signal combiner; and

16 the display system having:

17 a plurality of first wireless receivers wirelessly receiving the analog audio signals
18 transmitted from the wireless transmitter, via the channels[[,]];

19 a plurality of first frequency demodulators respectively connected to the first wireless
20 receivers and frequency-demodulating the analog audio signals[[,]];

21 a plurality of second wireless receivers wirelessly receiving the analog video signals
22 transmitted from the wireless transmitter[[,]];

23 a plurality of second frequency demodulators respectively connected to the second
24 wireless receivers and frequency-demodulating the analog video signals by the colors[[,]];
25 and

26 display and audio apparatuses outputting the video and audio signals demodulated
27 by the first and second frequency demodulators, respectively.

1 2. (Original) The system according to claim 1, wherein the signal dividing means is
2 comprised of a digital TV tuner card including a tuner receiving the digital TV signal, a VSB
3 (Vestigial Side Band) demodulating part demodulating a high frequency signal received by the tuner
4 into a VSB analog signal, a Viterbi decoder transforming the VSB analog signal into a digital signal,
5 and a demultiplexer dividing the digital signal transformed by the Viterbi decoder into the video
6 signal and the audio signal.

1 3. (Original) The system according to claim 2, wherein the video decoding means includes
2 a video decoder decoding the video signal outputted from the digital TV tuner card into R/G/B
3 signals, and a video signal transforming part transforming the R/G/B signals into Y/Pb/Pr low
4 frequency analog video signals.

1 4. (Original) The system according to claim 2, wherein the audio decoding means includes
2 an audio decoder decoding the audio signal outputted from the digital TV tuner card into six audio
3 signals corresponding to 5.1 channels in an AC-3 manner.

1 5. (Original) The system according to claim 4, wherein the audio apparatus is comprised of
2 six speakers applicable to the 5.1 channels.

1 6. (Original) The system according to claim 1, wherein the wireless transmitter and the first
2 and second wireless receivers are comprised of at least one antenna, respectively.

1 7. (Currently Amended) A system for restoring a digital video signal, comprising a computer
2 system and a display system, the computer system comprising:

3 a video signal outputting means outputting the digital video signal[[,]];:

4 a video decoding means decoding the digital video signals outputted from the video signal
5 outputting means into analog video signals, and outputting low frequency analog video signals by
6 colors[[,]];:

7 a plurality of frequency-modulators frequency-modulating the low frequency analog video
8 signals into high frequency signals, in response to intermediate frequencies, respectively[[,]];:

9 a signal combiner for combining the signals modulated by the plurality of frequency-
10 modulators; and

11 a wireless transmitter wirelessly transmitting the signals ~~modulated~~ combined by the
12 ~~frequency-modulators~~ signal combiner; and

13 the display system comprising:

14 a plurality of wireless receivers wirelessly receiving the analog video signals
15 transmitted from the wireless transmitter[[],];

16 a plurality of frequency demodulators respectively connected to the wireless receivers
17 and frequency-demodulating the analog video signals by colors[[],]; and

18 a display apparatus outputting the video signals demodulated by the frequency
19 demodulators.

1 8. (Original) The system according to claim 7, wherein the video signal outputting means is
2 comprised of a digital TV tuner card including a tuner receiving the digital TV signal, a VSB
3 (Vestigial Side Band) demodulating part demodulating a high frequency signal received by the tuner
4 into a VSB analog signal, a viterbi decoder transforming the VSB analog signal into a digital signal,
5 and a demultiplexer dividing the digital signal transformed by the viterbi decoder into the video
6 signal and the audio signal.

1 9. (Original) The system according to claim 8, wherein the video decoding means includes
2 a video decoder decoding the video signal outputted from the digital TV tuner card into R/G/B
3 signals, and a video signal transforming part transforming the R/G/B signals into Y/Pb/Pr low
4 frequency analog video signals.

1 10. (Currently Amended) A system for restoring a digital audio signal, comprising a
2 computer system and an audio system, the computer system comprising:

3 an audio signal outputting means outputting the digital audio signal[[,]];

4 an audio decoding means decoding the digital audio signals outputted from the audio signal
5 outputting means into analog audio signals after dividing the digital audio signals corresponding to
6 a plurality of channels having predetermined frequencies[[,]];

7 a plurality of frequency-modulators frequency-modulating the low frequency analog audio
8 signals into high frequency signals, in response to intermediate frequencies, respectively[[,]];

9 a signal combiner for combining the signals modulated by the plurality of frequency-
10 modulators; and

11 a wireless transmitter wirelessly transmitting the signals ~~modulated~~ combined by the
12 ~~frequency-modulators~~ signal combiner; and

13 the audio system comprising:

14 a plurality of wireless receivers wirelessly receiving the analog audio signals
15 transmitted from the wireless transmitter[[,]];

16 a plurality of frequency demodulators respectively connected to the wireless receivers
17 and frequency-demodulating the analog audio signals corresponding to the channels[[,]]; and

18 an audio apparatus outputting the audio signals demodulated by the frequency
19 demodulators.

1 11. (Original) The system according to claim 10, wherein the audio signal outputting means
2 is comprised of a digital TV tuner card including a tuner receiving the digital TV signal, a VSB
3 (Vestigial Side Band) demodulating part demodulating a high frequency signal received by the tuner
4 into a VSB analog signal, a viterbi decoder transforming the VSB analog signal into a digital signal,
5 and a demultiplexer dividing the digital signal transformed by the viterbi decoder into the video
6 signal and the audio signal.

1 12. (Original) The system according to claim 11, wherein the audio decoding means includes
2 an audio decoder decoding the audio signal outputted from the digital TV tuner card into six audio
3 signals corresponding to 5.1 channels in an AC-3 manner.

1 13. (Original) The system according to claim 12, wherein the audio apparatus is comprised
2 of six speakers applicable to the 5.1 channels.

1 14. (Currently Amended) A method for restoring a digital TV signal, comprising the steps
2 of:

3 dividing the digital TV signal into a digital video signal and an digital audio signal after a
4 predetermined signal processing;

5 decoding the digital video signal into low frequency analog video signal, by colors;

6 decoding the digital audio signal into analog audio signal with a plurality of channels
7 corresponding to predetermined frequencies;

modulating the low frequency analog video and audio signals into high frequency signals
having predetermined intermediate frequencies, respectively;

combining at least one of the frequency-modulated video signals and at least one of the
frequency-modulated audio signals;

~~transmitting at least one of~~ the combined the frequency-modulated video and audio signals
by wireless;

receiving at least one of the transmitted video and audio signals and demodulating the
received signals; and

outputting at least one of the demodulated video and audio signals to display and audio
apparatuses.

15. (Original) The method according to claim 14, wherein the step of decoding the digital
audio signal comprises the step of transforming the digital audio signal into six signals
corresponding to 5.1 channels.

16. (Original) The method according to claim 14, wherein the audio apparatus is comprised
of six speakers applicable to 5.1 channels.

17. (Currently Amended) A system for reproducing a digital TV signal, comprising:
a computer system comprising:

a digital TV tuner card for receiving the digital TV signal and separating an audio

4 signal and a video signal in MPEG-2 format from the digital TV signal for output;

5 an AC-3 audio decoder for receiving the separated audio signal and outputting 5.1
6 channel audio;

7 a video decoder for receiving the separated MPEG-2 video signal and outputting an
8 R/G/B video signal;

9 a video signal converter for receiving the R/G/B video signal and outputting a
10 Y/Pb/Pr video signal;

11 a wireless module separately modulating each video component and each audio
12 component of said Y/Pb/Pr video signal and said 5.1 channel audio using different center
13 frequencies, combining the modulated signals and wirelessly transmitting the combined
14 signal from a first antenna; and

15 a display system comprising:

16 ~~first through sixth~~ second through seventh antennas and corresponding first through
17 sixth demodulators for receiving the combined signal and outputting recovered 5.1 channel
18 audio to a speaker system; and

19 a ~~seventh~~ eighth antenna and seventh through ninth demodulators for receiving the
20 combined signal and outputting recovered Y/Pb/Pr video signals to a digital TV for display.